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<400> 3
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 Lys Pro Gly Gln Ala Pro Arg Leu Ile Tyr Gly Ala Ser Ser Arg
 35 40 45
 Ala Thr Gly Ile Pro Asp Arg Phe Ser Gly Ser Gly Thr Asp
 50 55 60
 Phe Thr Leu Thr Ile Ser Arg Leu Glu Pro Glu Asp Phe Ala Val Tyr
 65 70 75 80
 Tyr Cys Gln Gln Tyr Gly Ser Ser Pro Arg Thr Phe Gly Gln Gly Thr
 85 90 95
 Lys Val Glu Ile Lys Arg Thr Val Ala
 100 105

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<400> 4
 Pro Asp Ser Leu Ala Val Ser Leu Gly Glu Arg Ala Thr Ile Asn Cys
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 Lys Ser Ser Gln Ser Val Phe Tyr Thr Ser Asn Asn Lys Asn Tyr Leu
 20 25 30
 Ala Trp Tyr Gln Gln Lys Pro Gly Gln Pro Pro Lys Leu Leu Ile Tyr
 35 40 45
 Trp Ala Ser Thr Arg Glu Ser Gly Val Pro Asp Arg Phe Ser Gly Ser
 50 55 60
 Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Ser Ser Leu Gln Ala Glu
 65 70 75 80
 Asp Val Ala Val Tyr Tyr Cys Gln Gln Tyr Tyr Asp Ser Tyr Thr Phe
 85 90 95
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 100 105

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 20 25 30
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 35 40 45
 Ala Thr Gly Ile Pro Asp Arg Phe Ser Gly Ser Gly Thr Asp
 50 55 60
 Phe Ser Phe Thr Ile Ser Ser Leu Gln Pro Glu Asp Thr Gly Thr Tyr
 65 70 75 80
 Tyr Cys Gln Gln Tyr Asp Asn Val Pro Asp Thr Phe Gly Gln Gly Thr
 85 90 95
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 100 105

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 20 25 30
 Lys Pro Gly Gln Ala Pro Arg Leu Leu Ile Tyr Gly Ala Ser Ser Arg
 35 40 45
 Ala Thr Gly Ile Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp
 50 55 60
 Phe Thr Leu Thr Ile Ser Arg Leu Glu Pro Glu Asp Phe Ala Val Tyr
 65 70 75 80
 Tyr Cys Gln Gln Tyr Gly Thr Ser Pro Leu Phe Gly Gln Gly Thr Arg
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 20 25 30
 Lys Pro Gly Gln Ala Pro Arg Leu Leu Ile Tyr Gly Ala Ser Ser Arg
 35 40 45
 Ala Thr Gly Ile Pro Asp Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp
 50 55 60
 Phe Thr Leu Thr Ile Ser Arg Leu Glu Pro Glu Asp Phe Ala Val Tyr
 65 70 75 80
 Tyr Cys Gln Gln Tyr Gly Ser Ser Pro Arg Thr Phe Gly Gln Gly Thr
 85 90 95
 Lys Val Glu Ile Lys Arg Thr Val Ala
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 20 25 30
 Ala Pro Gly Lys Gly Leu Glu Trp Val Ala Leu Leu Ser Ser Asp Gly
 35 40 45
 Ser Asn Lys Phe Tyr Ile Glu Ser Val Lys Gly Arg Phe Thr Ile Ser
 50 55 60
 Lys Asp Asn Ser Lys Asn Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg
 65 70 75 80
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 85 90 95
 Thr Ala Phe Asn Tyr Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser
 100 105 110

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 20 25 30
 Ala Pro Gly Lys Gly Leu Glu Trp Val Ala Leu Leu Thr Met Asp Arg
 35 40 45
 Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr Leu Gln Leu
 50 55 60
 Ser Ser Leu Arg Pro Glu Asp Thr Ala Val Tyr Tyr Cys Thr Asn Ser
 65 70 75 80
 Glu Val Gly Ala Thr Ala Phe Asp Tyr Trp Gly Gln Gly Thr Leu Val
 85 90 95
 Thr Val Ser Ser
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 20 25 30
 Ala Pro Gly Lys Gly Leu Glu Trp Val Ala Val Ile Ser Tyr Asp Gly
 35 40 45
 Asn Lys Lys Tyr Tyr Ala Asp Ser Val Lys Gly Arg Phe Thr Ile Ser
 50 55 60
 Lys Asp Asn Ser Lys Asn Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg
 65 70 75 80
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 85 90 95
 Thr Ala Phe Asn Tyr
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 <213> Homo sapiens

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 1 5 10 15
 Ala Ser Gly Asn Thr Phe Thr Gly His His Ile His Trp Val Arg Gln
 20 25 30
 Ala Pro Gly Gln Gly Leu Gln Trp Met Gly Arg Ile Asn Pro Thr Gly
 35 40 45
 Gly Gly Val Ser Leu Ala Gln Ser Phe Gln Asp Arg Val Ser Leu Thr
 50 55 60
 Arg Asp Arg Ser Ser Asn Thr Val Phe Leu Glu Leu Ser Gly Leu Thr
 65 70 75 80
 Glu Glu Asp Thr Ala Leu Tyr Phe Cys Ala Arg Pro Arg Phe Asn Met
 85 90 95
 Ile Arg Glu Pro Leu Asp Leu Trp Gly Gln Gly Thr Val Val Thr Val
 100 105 110

Ser Ser

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<211> 116
<212> PRT
<213> Homo sapiens

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1 5 10 15
Thr Ser Gly Phe Ile Phe Asn Ser Tyr Ala Met Asn Trp Val Arg Gln
20 25 30
Ala Pro Gly Lys Gly Leu Glu Trp Val Ser Arg Ile Ser Gly Asn Ser
35 40 45
Gly Ser Thr Phe Tyr Ala Asp Ser Val Lys Gly Arg Phe Thr Ile Ser
50 55 60
Arg Asp Asn Ser Lys Asn Thr Ala Phe Leu Arg Met Asn Ser Gln Arg
65 70 75 80
Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Lys Asp Leu Ser Ser Gly
85 90 95
Ala Tyr Tyr Tyr Tyr Gly Met Asp Val Trp Gly Gln Gly Thr Thr Val
100 105 110
Thr Val Ser Ser
115

<210> 13
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20 25 30
Arg Gln Pro Val Gly Lys Gly Leu Glu Trp Ile Gly Arg Ile Tyr Gly
35 40 45
Arg Gly Thr Thr Asn Tyr Asn Arg Val Phe Gly Ser Arg Val Ser Met
50 55 60
Ser Val Asp Met Ser Arg Ser Gln Phe Phe Leu Glu Leu Arg Asp Val
65 70 75 80
Thr Ala Ala Asp Thr Ala Val Tyr Tyr Cys Ala Arg Asp Lys Gly Ser
85 90 95
Glu Tyr Ser Tyr Phe Asp Pro Trp Gly Gln Gly Ile Val Val Asn Val
100 105 110
Phe Ser

<210> 14
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Ala Ser Gly Gly Thr Phe Ser Arg Tyr Ala Ile Ser Trp Val Arg Gln
20 25 30
Ala Pro Gly Gln Gly Leu Glu Trp Met Gly Gly Ile Ile Pro Pro Phe
35 40 45

Gly	Pro	Val	Asn	Tyr	Ala	Gln	Lys	Phe	Gln	Gly	Arg	Val	Thr	Ile	Thr
50						55					60				
Ala	Asp	Asp	Ser	Thr	Asn	Thr	Ala	Tyr	Met	Gly	Leu	Ser	Ser	Leu	Arg
65					70					75					80
Ser	Gly	Asp	Thr	Ala	Val	Tyr	Tyr	Cys	Ala	Arg	Val	Ala	Tyr	Asp	Gly
				85					90					95	
Ser	Gly	Tyr	Tyr	Asn	Asn	Ile	Pro	Lys	Ile	Tyr	Tyr	Tyr	Ser	Tyr	Met
			100					105					110		
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<400> 16
 Ser His Thr Met His
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<400> 17
 Ser Tyr Thr Phe His
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<400> 18
 Gly His His Ile His
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<400> 19
 Ser Tyr Ala Met Asn
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 Gly Asp Ser Tyr Phe Trp Ser
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<400> 21
 Arg Tyr Ala Ile Ser
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<210> 22
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<400> 22
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 1 5 10 15
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<210> 23
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<400> 23
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<210> 24
 <211> 17
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<400> 24
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 1 5 10 15
 Gly

<210> 25
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 <212> PRT
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<210> 26
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<400> 26
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 1 5 10 15
 Gly

<210> 27
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<400> 27
 Arg Ile Tyr Gly Arg Gly Thr Thr Asn Tyr Asn Arg Val Phe Gly Ser
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<210> 28
 <211> 17
 <212> PRT
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<400> 28
 Gly Ile Ile Pro Pro Phe Gly Pro Val Asn Tyr Ala Gln Lys Phe Gln
 1 5 10 15
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<210> 29
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<400> 29
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<210> 30
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<400> 30
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<210> 31
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<400> 31
 Ser Ile Val Gly Thr Thr Ala Phe Asn Tyr
 1 5 10

<210> 32
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<400> 32
 Pro Arg Phe Asn Met Ile Arg Glu Pro Leu Asp Leu
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<210> 33
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<400> 33
Asp Leu Ser Ser Gly Ala Tyr Tyr Tyr Tyr Gly Met Asp Val
1 5 10

<210> 34
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<400> 34
Asp Lys Gly Ser Glu Tyr Ser Tyr Phe Asp Pro
1 5 10

<210> 35
<211> 23
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<400> 35
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1 5 10 15
Tyr Tyr Ser Tyr Met Asp Val
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<400> 36
Lys Ser Ser Gln Ser Val Phe Tyr Thr Ser Asn Asn Lys Asn Tyr Leu
1 5 10 15
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<400> 37
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1 5 10

<210> 38
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<400> 38
Arg Ala Ser Gln Ser Val Ser Ser Ser Tyr Leu Ala
1 5 10

<210> 39
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<400> 39
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<210> 40
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<400> 40
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<210> 41
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<400> 41
 Arg Ala Ser Gln Ser Val Ser Ser Ser Tyr Leu Ala
 1 5 10

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<400> 42
 Arg Ala Ser Gln Ser Val Ser Ser Ser Tyr Leu Ala
 1 5 10

<210> 43
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<400> 43
 Trp Ala Ser Thr Arg Glu Ser
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<400> 44
 Ala Ala Ser Thr Leu Gln Ser
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 Gly Ala Ser Ser Arg Ala Thr
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 <400> 46
 Trp Ala Ser Thr Arg Glu Ser
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 <400> 47
 Gly Ala Ser Ser Arg Ala Thr
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 Gly Ala Ser Ser Arg Ala Thr
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 <400> 49
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 <400> 50
 Gln Gln Tyr Tyr Asp Ser Tyr Thr
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 <400> 51
 Gln Gln Leu Asn Ser Tyr Pro Leu Thr
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 <400> 52
 Gln Gln Tyr Gly Ser Ser Pro Arg Thr
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 <400> 53
 Gln Gln Tyr Tyr Asp Ser Tyr Thr
 1 5

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 <400> 54
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 <400> 55
 Gln Gln Tyr Gly Thr Ser Pro Leu
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 <400> 56
 Gln Gln Tyr Gly Ser Ser Pro Arg Thr
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 <400> 57
 Gly Gly Gly Val Val Gln Pro Gly Arg Ser Leu Lys Leu Ser Cys Ala
 1 5 10 15
 Ala Ser Gly Phe Thr Phe Ser
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 <210> 58
 <211> 23
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 <400> 58
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 Ala Ser Gly Phe Thr Phe Ser
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 <210> 59
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<400> 59
 Gly Gly Gly Val Val Gln Pro Gly Arg Ser Leu Arg Leu Ser Cys Ala
 1 5 10 15
 Ala Ser Gly Phe Thr Phe Ser
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<210> 60
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<400> 60
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 1 5 10 15
 Ala Ser Gly Asn Thr Phe Thr
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<210> 61
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<400> 61
 Gly Gly Gly Leu Val Gln Pro Gly Gly Ser Leu Arg Leu Ser Cys Ala
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 Thr Ser Gly Phe Ile Phe Asn
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<210> 62
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<400> 62
 Gly Pro Gly Leu Val Arg Pro Ser Gln Thr Leu Ser Leu Thr Cys Pro
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 Val Ser Pro Gly Ser Ile Lys
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<210> 63
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<400> 63
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 Ala Ser Gly Gly Thr Phe Ser
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<210> 64
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<400> 64
 Trp Val Arg Gln Ala Pro Gly Lys Gly Leu Glu Trp Val Ala
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 <400> 65
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 <400> 68
 Trp Val Arg Gln Ala Pro Gly Gln Gly Leu Glu Trp Met Gly
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 <210> 69
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 <400> 69
 Arg Phe Thr Ile Ser Lys Asp Asn Ser Lys Asn Thr Leu Tyr Leu Gln
 1 5 10 15
 Met Asn Ser Leu Arg Ile Asp Asp Thr Ala Val Tyr Tyr Cys Ala Ile
 20 25 30

 <210> 70
 <211> 32
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 <400> 70
 Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Leu Tyr Leu Gln
 1 5 10 15
 Leu Ser Ser Leu Arg Pro Glu Asp Thr Ala Val Tyr Tyr Cys Thr Asn
 20 25 30

 <210> 71
 <211> 32
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<400> 71
 Arg Phe Thr Ile Ser Lys Asp Asn Ser Lys Asn Thr Leu Tyr Leu Gln
 1 5 10 15
 Met Asn Ser Leu Arg Val Glu Asp Thr Ala Val Tyr Tyr Cys Ala Ile
 20 25 30

<210> 72
 <211> 32
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<400> 72
 Arg Val Ser Leu Thr Arg Asp Arg Ser Ser Asn Thr Val Phe Leu Glu
 1 5 10 15
 Leu Ser Gly Leu Thr Glu Glu Asp Thr Ala Leu Tyr Phe Cys Ala Arg
 20 25 30

<210> 73
 <211> 32
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<400> 73
 Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn Thr Ala Phe Leu Arg
 1 5 10 15
 Met Asn Ser Gln Arg Ala Glu Asp Thr Ala Val Tyr Tyr Cys Ala Lys
 20 25 30

<210> 74
 <211> 32
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<400> 74
 Arg Val Ser Met Ser Val Asp Met Ser Arg Ser Gln Phe Phe Leu Glu
 1 5 10 15
 Leu Arg Asp Val Thr Ala Ala Asp Thr Ala Val Tyr Tyr Cys Ala Arg
 20 25 30

<210> 75
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<400> 75
 Arg Val Thr Ile Thr Ala Asp Asp Ser Thr Asn Thr Ala Tyr Met Gly
 1 5 10 15
 Leu Ser Ser Leu Arg Ser Gly Asp Thr Ala Val Tyr Tyr Cys Ala Arg
 20 25 30

<210> 76
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<400> 76
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<210> 77
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 <400> 77
 Trp Gly Gln Gly Thr Val Val Thr Val Ser Ser
 1 5 10

 <210> 78
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 <400> 78
 Trp Gly Gln Gly Thr Thr Val Thr Val Ser Ser
 1 5 10

 <210> 79
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 <400> 79
 Trp Gly Gln Gly Ile Val Val Asn Val Phe Ser
 1 5 10

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 <400> 80
 Trp Gly Lys Gly Thr Thr Val Thr Val Ser Ser
 1 5 10

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 <400> 81
 Pro Asp Ser Leu Ala Val Ser Leu Gly Glu Arg Ala Thr Ile Asn Cys
 1 5 10 15

 <210> 82
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 <400> 82
 Pro Ser Phe Leu Ser Ala Ser Val Gly Asp Arg Val Thr Ile Thr Cys
 1 5 10 15

 <210> 83
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 Pro Gly Thr Leu Ser Leu Ser Pro Gly Glu Arg Ala Thr Leu Ser Cys
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<210> 84
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Pro Asp Ser Leu Ala Val Ser Leu Gly Glu Arg Ala Thr Ile Asn Cys
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<210> 86
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<400> 86
Pro Gly Thr Leu Ser Leu Ser Pro Gly Glu Gly Ala Thr Leu Ser Cys
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<210> 87
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<400> 87
Pro Gly Thr Leu Ser Leu Ser Pro Gly Glu Arg Val Thr Leu Ser Cys
1 5 10 15

<210> 88
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Trp Tyr Gln Gln Lys Pro Gly Gln Pro Pro Lys Leu Leu Ile Tyr
1 5 10 15

<210> 89
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<400> 89
Trp Tyr Gln Leu Lys Pro Gly Lys Ala Pro Lys Leu Leu Ile Tyr
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Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu Ile Tyr
1 5 10 15

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 <400> 91
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 <210> 92
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 <400> 92
 Trp Tyr Gln Gln Arg Pro Gly Gln Ala Pro Arg Leu Leu Ile Tyr
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 <210> 93
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 <400> 93
 Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu Ile Tyr
 1 5 10 15

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 Trp Tyr Gln Gln Lys Pro Gly Gln Ala Pro Arg Leu Leu Ile Tyr
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 <210> 95
 <211> 32
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 20 25 30

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 <400> 96
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 20 25 30

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 20 25 30

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 20 25 30

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<400> 99
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 20 25 30

<210> 100
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<400> 100
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 Leu Thr Ile Ser Arg Leu Glu Pro Glu Asp Phe Ala Val Tyr Tyr Cys
 20 25 30

<210> 101
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<400> 101
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 Leu Thr Ile Ser Arg Leu Glu Pro Glu Asp Phe Ala Val Tyr Tyr Cys
 20 25 30

<210> 102
 <211> 14
 <212> PRT
 <213> Homo sapiens

<400> 102
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<210> 103
<211> 14
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<400> 103
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<210> 104
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<400> 104
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 1             5             10

<210> 105
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<400> 105
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 1             5             10

<210> 106
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<212> PRT
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<400> 106
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 1             5             10

<210> 107
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<212> PRT
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<400> 107
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 1             5             10

<210> 108
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<400> 108
Phe Gly Gln Gly Thr Lys Val Glu Ile Lys Arg Thr Val Ala
 1             5             10

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<212> DNA
<213> Homo sapiens

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acgacacggc	tgtctattac	tgtgcgattt	ccctgggtggg	aactaccgct	tttaactact	300
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ttcagtggca	gcgggtcttg	gacagatttc	actctacca	tcagcagcct	gcaggctgaa	240
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<210> 116
 <211> 315
 <212> DNA
 <213> Homo sapiens

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<210> 117
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 <212> DNA
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<210> 118
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 <212> DNA
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 <211> 342
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<210> 121
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 <211> 376
 <212> DNA
 <213> Homo sapiens

<400> 122
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 tcacgattac cgcggacgat tccacgaaca cagcctacat gggctctgagc agcctgagat 240
 ctggggacac ggccgtgtat tactgcgcga gagtggccta tgatggtagt ggctattaca 300
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<210> 123
 <211> 5
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> A synthetic flexible five amino acid tether.

<400> 123
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